



PTO/SB/21 (05-03)  
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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/672530
	Filing Date	September 26, 2003
	First Named Inventor	Gang Yu
	Art Unit	2878
	Examiner Name	Not Assigned
Total Number of Pages in This Submission	Attorney Docket Number	UA0022USDIV1

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Group
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Lois A. Santopietro
Signature	<i>Lois A. Santopietro</i>
Date	February 23, 2004

CERTIFICATE OF TRANSMISSION/MAILING	
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. <u>February 25, 2004</u>	
Typed or printed name	Faith E. Sroka
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Date	February 25, 2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE APPLICATION OF:

GANG YU

CASE NO.: UA0022USDIV1

CONFIRMATION NO.: 1217

EXAMINER:

FOR: IMAGE SENSORS MADE FROM ORGANIC SEMICONDUCTORS.



APPLICATION NO.: 10/672530

GROUP ART UNIT: 2878

FILED: SEPTEMBER 26, 2003

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In compliance with 37 CFR 1.97 and 1.98, Applicant brings to the attention of the U.S. Patent and Trademark Office information listed on the enclosed PTO/SB/08A, PTO/SB/08B, and PTO-1449.

Benefit of the earlier filing date of U.S. Patent Application No. 09/923,652, filed August 7, 2001, which is a divisional of U.S. Patent Application No. 09/241,657, filed February 2, 1999 (U.S. Patent 6,300,612) is claimed under 35 U.S.C. 120 for the above-referenced application and only copies of information not previously made of record in the parent are enclosed.

Should any fee be required in connection with the filing of this Information Disclosure Statement, please charge such fee to Deposit Account No. 04-1928 (E. I. du Pont de Nemours and Company).

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Lois A. Santopietro".

**LOIS A. SANTOPIETRO**  
AGENT FOR APPLICANT  
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Dated: February 03, 2004

Enclosures

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**Complete if Known**

Application Number	09/241,657
Filing Date	FEBRUARY 2, 1999
First Named Inventor	GANG YU
Group Art Unit	2878
Examiner Name	J. LEE
Attorney Docket Number	UA0022 US NA

*(use as many sheets as necessary)*

Sheet	1	of	3
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[illegible][illegible]

Date Considered

5.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>		<b>Complete if Known</b>	
		Application Number	09/241,657
		Filing Date	FEBRUARY 2, 1999
		First Named Inventor	GANG YU
		Group Art Unit	2878
		Examiner Name	J. LEE
		Attorney Docket Number	UA0022 US NA
Sheet	2	of	3

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		KARG, S. ET AL., Electrical and optical characterization of poly(phenylene-vinylene) light emitting diodes, Synthetic Metals, 1993, 427-433, 54, Elsevier Sequoia	
		SHIROTANI, ICHIMIN et al., Electrical conductivity of one-dimensional halogen-bridged metal complexes at high pressures, Synthetic Metals, 1994, 265-270, 64, Elsevier Science S.A.	
		YU, G. et al., Dual-function semiconducting polymer devices: Light-emitting and photodetecting diodes, Appl. Phys. Lett., March 1994, 1540-1542, 64 (12) American Institute of Physics	
		MARKS, R. N. et al., The photovoltaic response in poly(p-phenylene vinylene) thin-film devices, J. Phys.: Condens. Matter, 1994, 1379-1394, 6, IOP Publishing Ltd.	
		YU, G. et al., Semiconducting polymer diodes: Large size, low cost photodetectors with excellent visible-ultraviolet sensitivity, June 20, 1994, 3422-3424, 64 (25), American Institute of Physics	
		SARICIFTCI, N. S. et al., Photoinduced Electron Transfer from a Conducting Polymer to Buckminsterfullerene, Science, November 27, 1992, 1474-1476, 258	
		L. SMILOWITZ, L. et al., Photoexcitation spectroscopy of conducting-polymer C <sub>60</sub> composites: Photoinduced electron transfer, Physical Review B, May 15, 1993, 13 835-13 842, 47 (20), The American Physical Society	
		SARICIFTCI, N. S. et al., Reversible, Metastable, Ultrafast Photoinduced Electron Transfer From Semiconducting Polymers to Buckminsterfullerene and in the Corresponding Donor/Acceptor Heterojunctions, International Journal of Modern Physics B, 1994, 237-274, 8 (3), World Scientific Publishing Company	
		KRAABEL, B. et al., Ultrafast photoinduced electron transfer in conducting polymer-buckminsterfullerene composites, Chemical Physics Letters, October 8, 1993, 389-394, 213 (3,4), Elsevier Science Publishers, B.V.	
		KRAABEL, B. et al., Ultrafast spectroscopic studies of photoinduced electron transfer from semiconducting polymers to C <sub>60</sub> , Physical Review B, December 15, 1994, 18 543-18 552, 50 (24), The American Physical Society	
		CHAMBERLAIN, G. A. et al., Organic Solar Cells: A Review, Solar Cells, 1983, 47-83, 8, Elsevier Sequoia, The Netherlands	

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	09/241,657
		Filing Date	FEBRUARY 2, 1999
		First Named Inventor	GANG YU
		Group Art Unit	2878
		Examiner Name	J. LEE
		Attorney Docket Number	UA0022 US NA
Sheet	3	of	3

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		LEE, C. H. et al., Sensitization of the photoconductivity of conducting polymers by C <sub>60</sub> -Photoinduced electron transfer, Physical Review B, November 15, 1993, 15 425-15 433, 48 (20) The American Physical Society	
		YU, G., Polymer Photovoltaic Cells: Enhanced Efficiencies via a Network of Internal Donor-Acceptor Heterojunctions, Science, December 15, 1995, 1789-1791, 270	
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		SZE, S. M., Chapter 12 LED and Semiconductor Lasers, Physics of Semiconductor Devices, Part V Photonic Devices, 681-838, John Wiley & Sons	
		GUSTAFSSON, G. et al., Flexible light-emitting diodes made from soluble conducting polymers, Nature, June 11, 1992, 477-479, 357	
		HEEGER, ALAN J. et al., Optics & Photonics News, August 1996, 24-30	
		SARICIFTCI, N. S. et al., Semiconducting polymer-buckminsterfullerene heterojunctions: Diodes, photodiodes, and photovoltaic cells, Appl. Phys. Lett., February 8, 1993, 585-587, 62 (6), American Institute of Physics	

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<b>INFORMATION DISCLOSURE CITATION</b>  PTO-1449				ATTORNEY'S DKT NO. 028618-102		APPLICATION NO. 09/241,657	
				APPLICANT Gang YU			
				FILING DATE February 2, 1999		GROUP 1752	
U. S. PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
	4514755	4/85	Tabei				
	5424560	6/95	Norman et al.				
	5504323	4/96	Heeger et al.				
FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation Yes No	
	59227171	12/84	Japan; English abstract and Japanese Publication				
	59229863	12/84	Japan; English abstract and Japanese Publication				
	60128785	7/85	Japan; English abstract and Japanese Publication				
	2166289	4/86	United Kingdom				
	63300574	12/88	Japan; English abstract and Japanese Publication				
	63300576	12/88	Japan; English abstract and Japanese Publication				
	07099297	4/95	Japan; English abstract and Japanese Publication				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
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